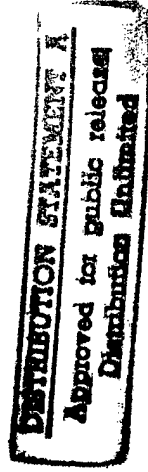


Ballistic Missile Defense Overview Presentation For Conference On The Law And Policy Relating To National Security Activities In Outer Space



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Lt Gen Lester L. Lyles, USAF
Director

Ballistic Missile Defense Organization

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Personal Author: Lyles, L.L.

Corporate Author Or Publisher: BMDO, The Pentagon, Washington, DC

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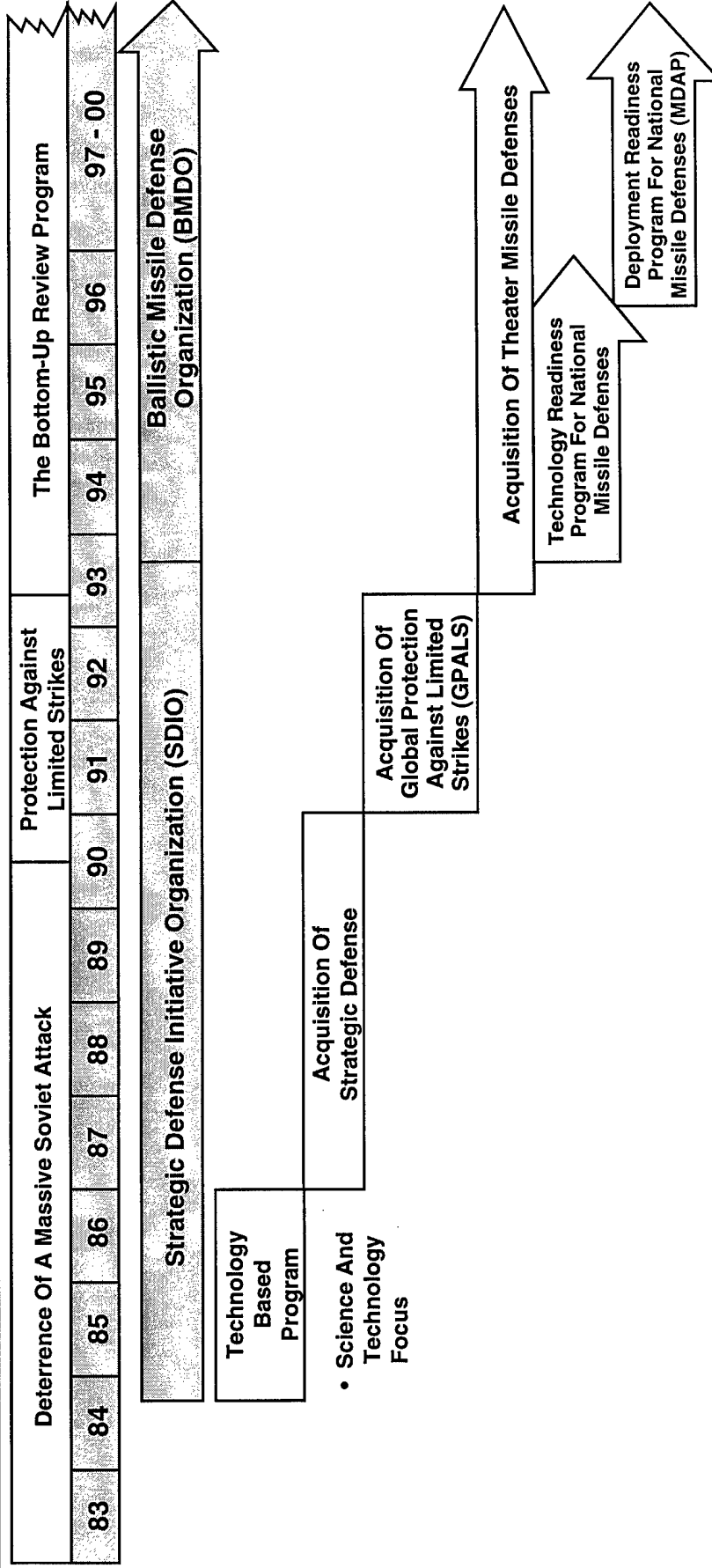
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EVOLUTION OF THE BALLISTIC MISSILE DEFENSE PROGRAM



▲ March 1983
President Reagan's
Speech

▲ Missile Defense
Act Of 1991

Iran-Iraq War

End Cold
War Era

Gulf War - Reality
Of Theater Threat

▲ Bottom-Up
Review

▲ Missile Defense Act Of 1993
- Theater Missile Defense Initiative

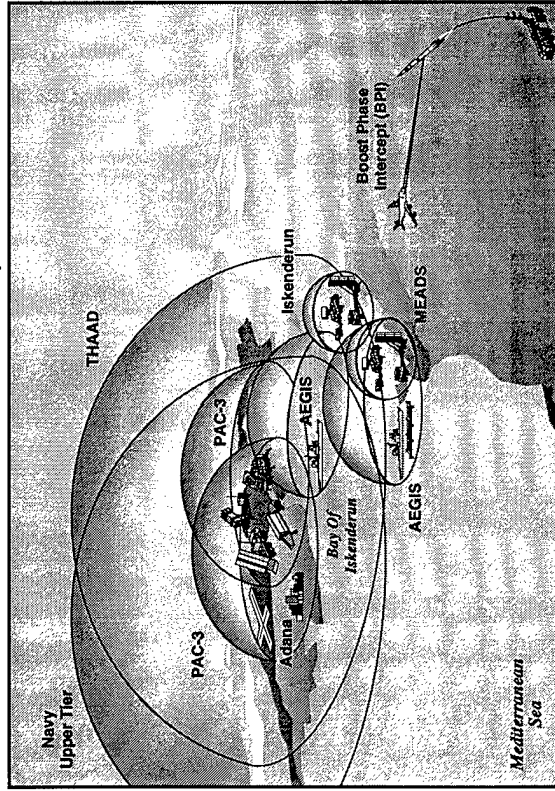
▲ BMD Review

?????

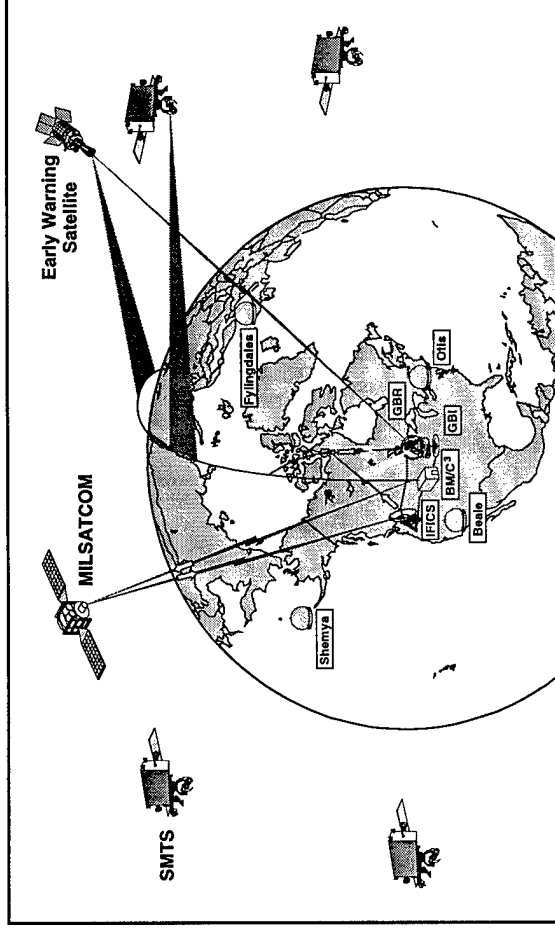


BMDO MISSIONS

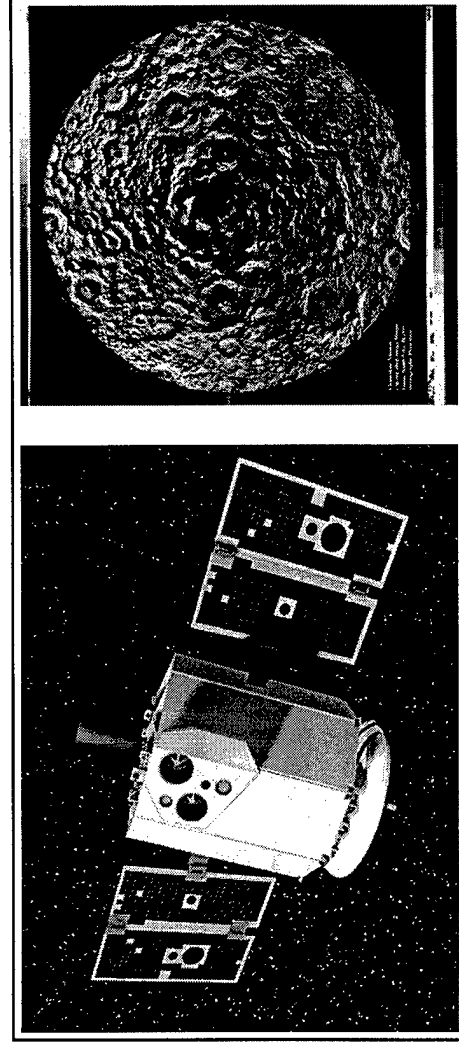
TMD : First Priority
Acquisition



NMD : Second Priority
Deployment Readiness Program

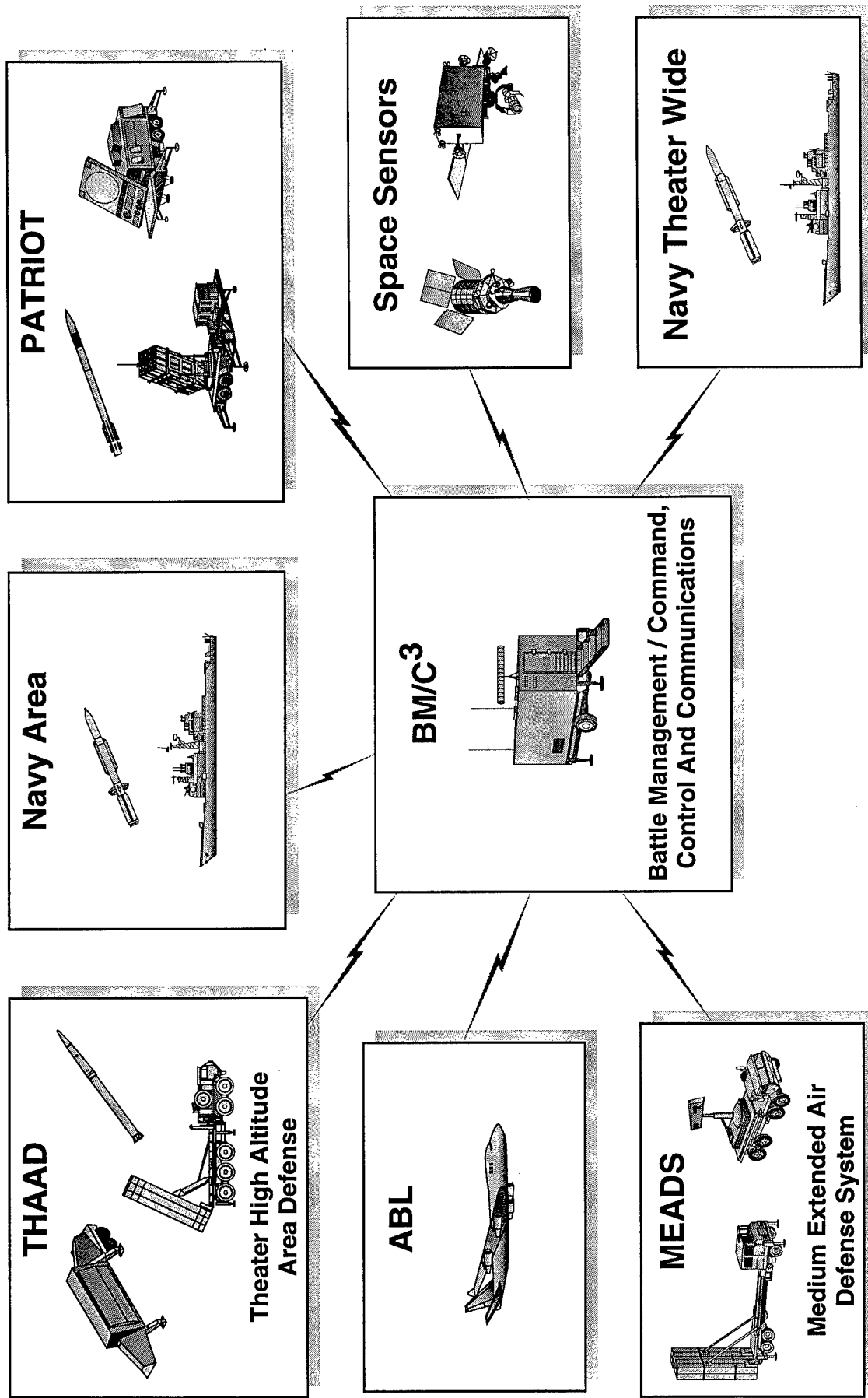


Technology : Third Priority
Component And Advanced Concepts R&D



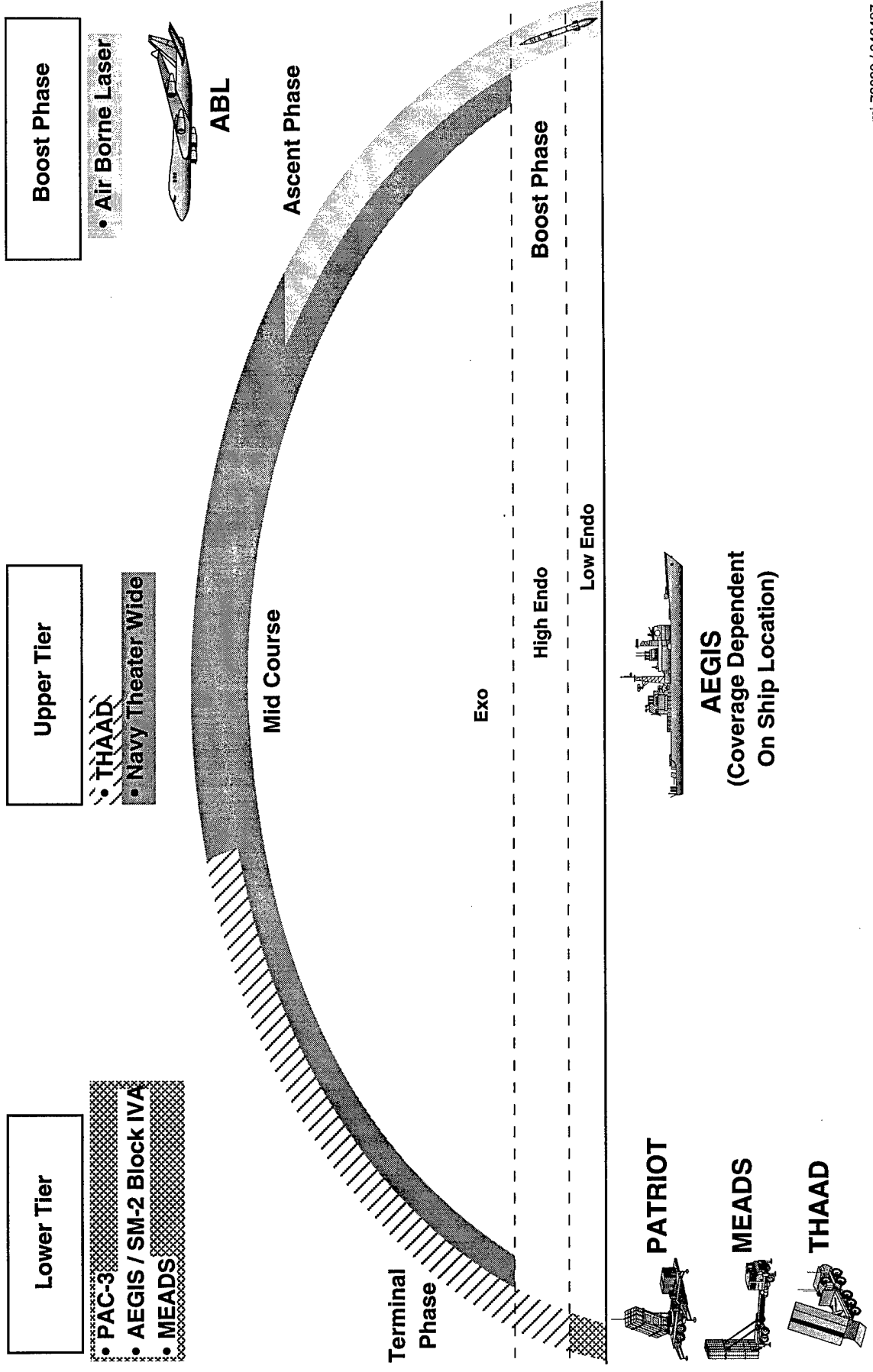


THE TMD FAMILY OF SYSTEMS



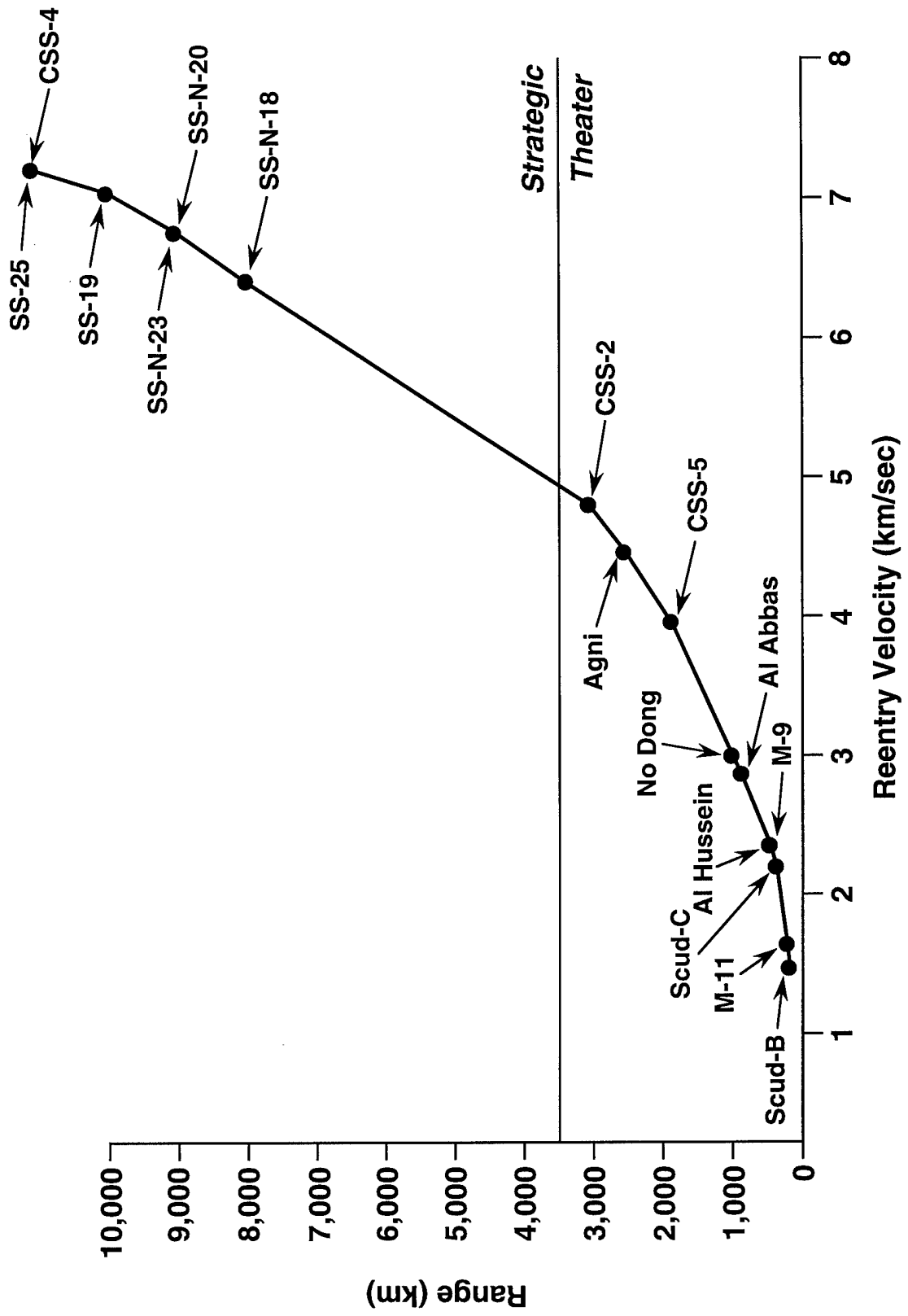


THEATER MISSILE DEFENSE PROGRAM



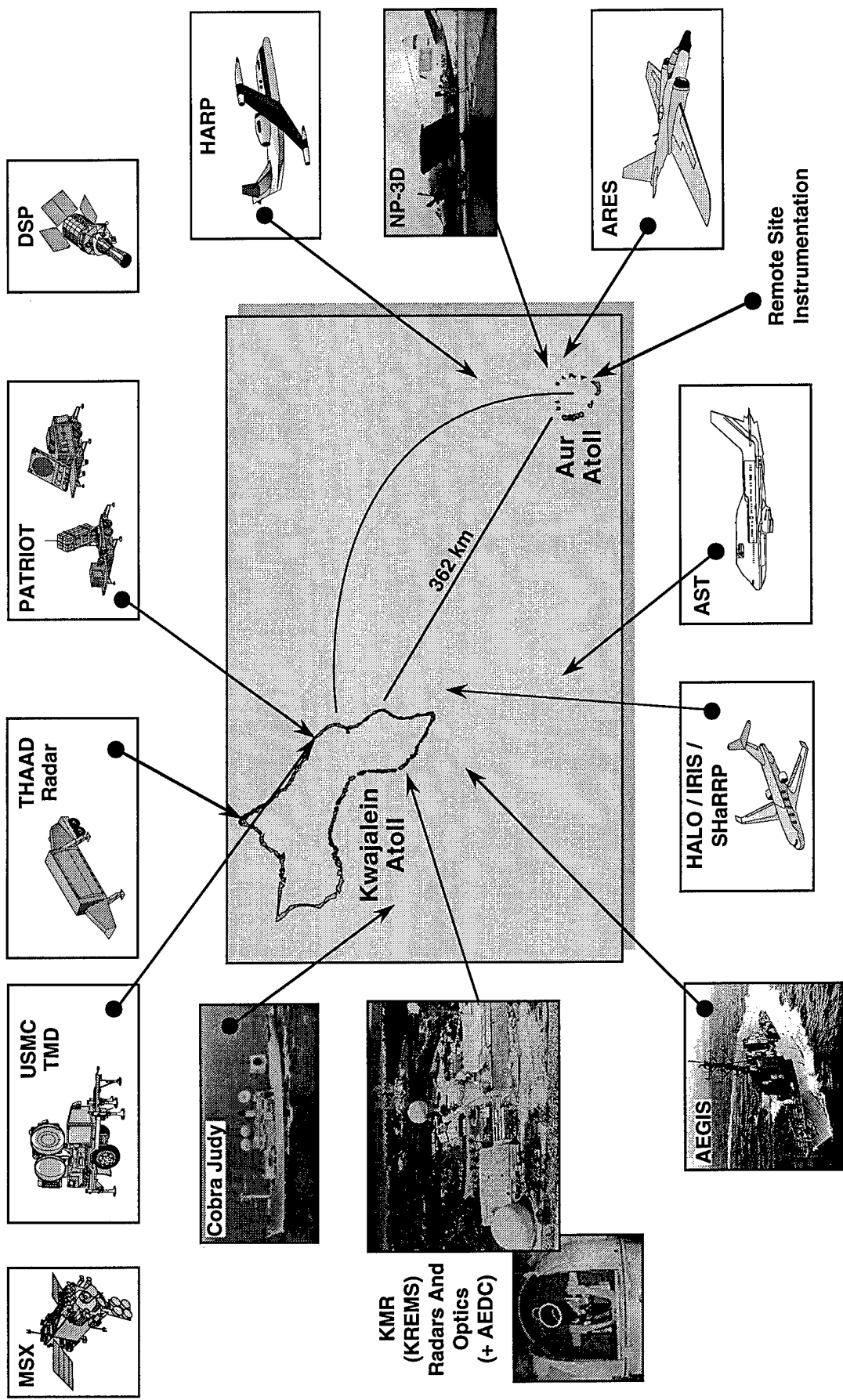


BALLISTIC MISSILE RANGE VERSUS REENTRY VELOCITY





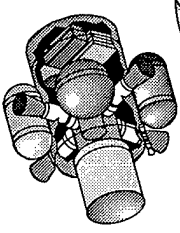
WILLOW DUNE FEBRUARY 1997





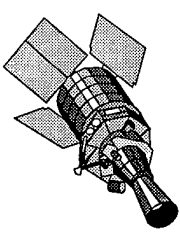
THE NMD SYSTEM ELEMENTS

GBI



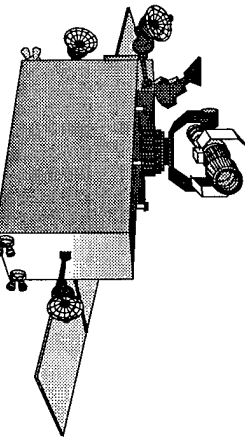
Ground Based Interceptor

DSP / SBIRS GEO



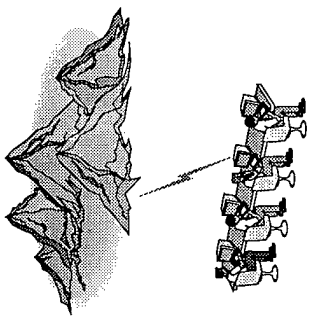
**Defense Support Program /
Space Based Infrared System
Geosynchronous Earth Orbit**

SMTS / SBIRS LEO (U.S. Air Force)



**Space And Missile Tracking System /
Space Based Infrared System
Low Earth Orbit**

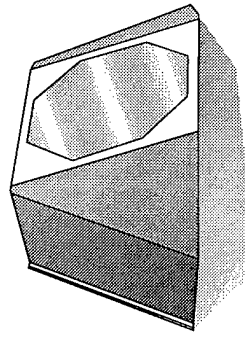
BM/C³



**Battle Management / Command,
Control And Communications Includes
In-flight Interceptor Communications
System (IFICS) Which Provides
Communications For BM/C³ To GBI**

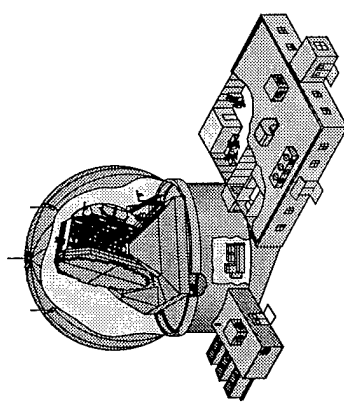
Other Radars

UEWR



Upgraded Early Warning Radar

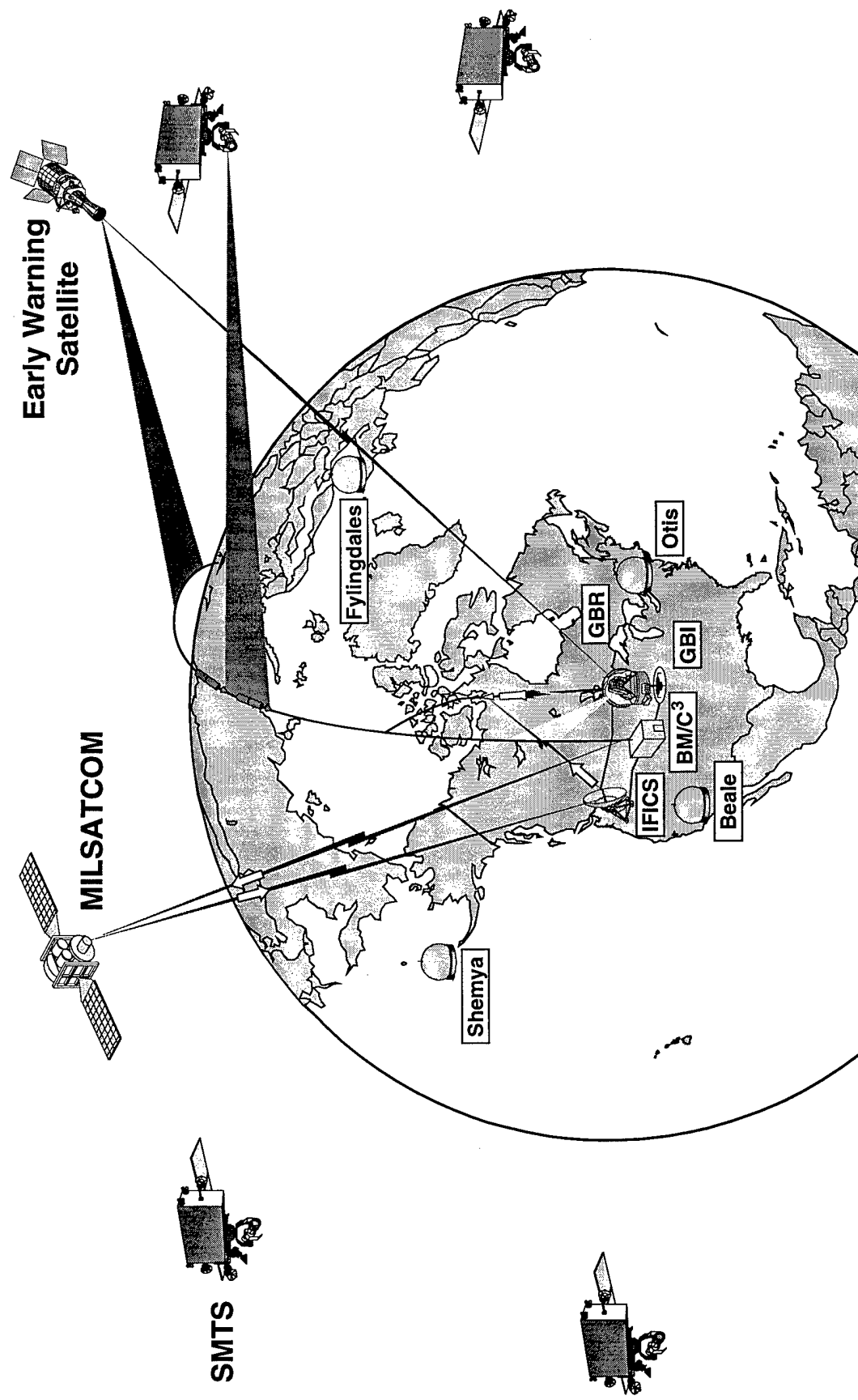
GBR



Ground Based Radar



NOTIONAL NMD SYSTEM ARCHITECTURE

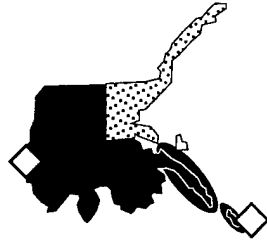




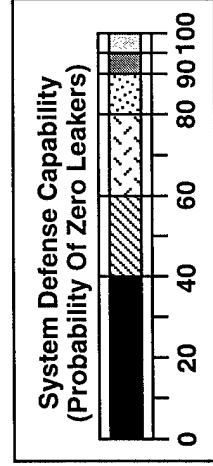
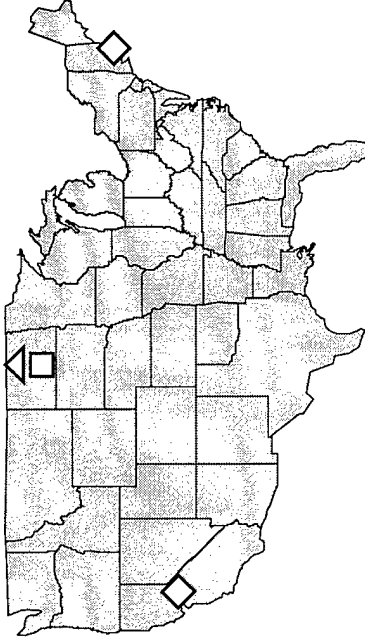
NMD C1 SINGLE SITE ARCHITECTURE OPTION

– GBI AT GF, GBR, FORWARD BASED X-BAND, UEWRS –

Composite Performance Against All Launch Regions



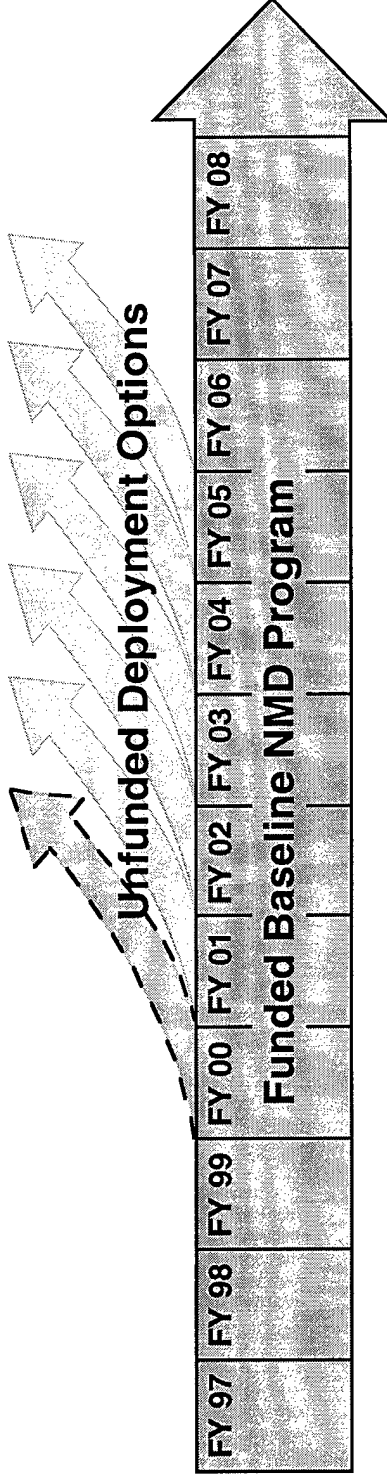
Key	
GBI Site	△
GBR Site	□
Forward Based X-band Site	◇





NATIONAL MISSILE DEFENSE (NMD) DEPLOYMENT READINESS

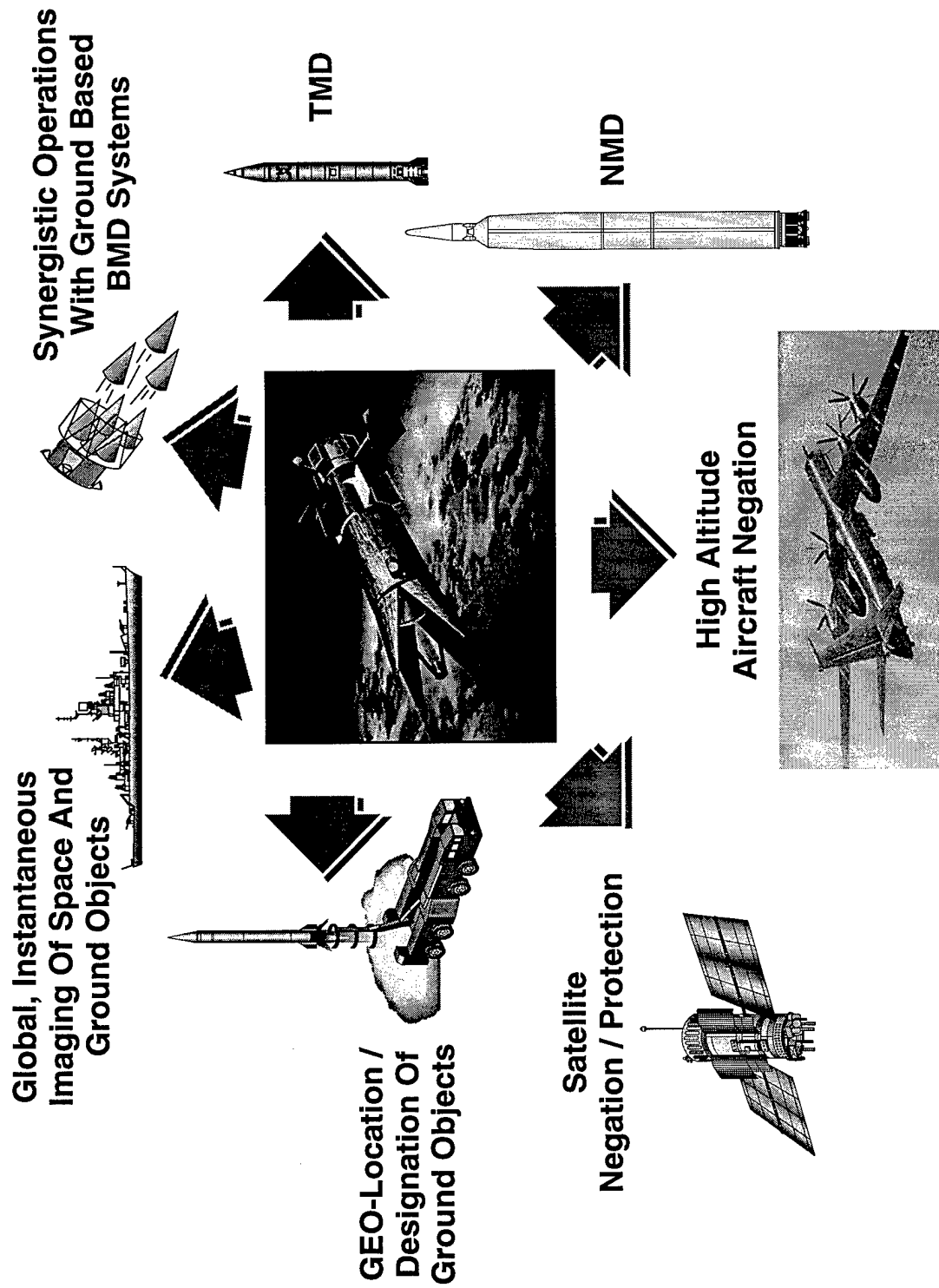
- Goal / Requirement
 - Position The U.S. To Respond To Strategic Missile Threat As It Emerges



- Changed To Deployment Readiness MDAP
- 3+3 Concept: 3 Years To Develop; 3 Years To Deploy
- Deployment Triggered By Threat
- Deployed Architecture Tailored To Threat



SBL MISSION POTENTIAL





TMD ISSUES

- **ABM Treaty Compliance**
 - Demarcation
 - Russian Cooperation
 - Testing And Targets



NMD ISSUES

- ABM Treaty Compliance
 - Development
 - Siting
 - Deployment



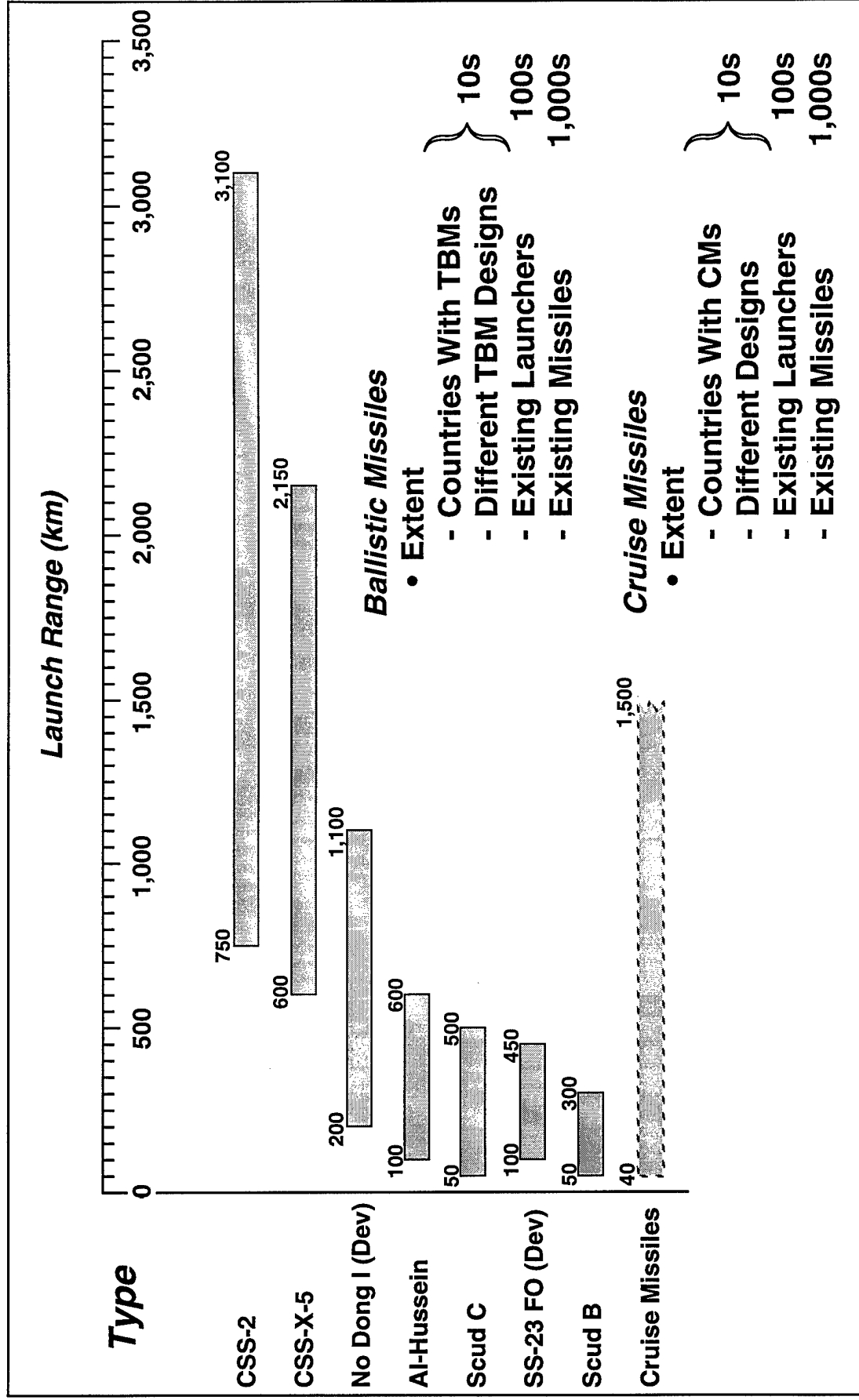
TECHNOLOGY ISSUES

- Space Based Weapons
- NMD / TMD Utility

BACKUP

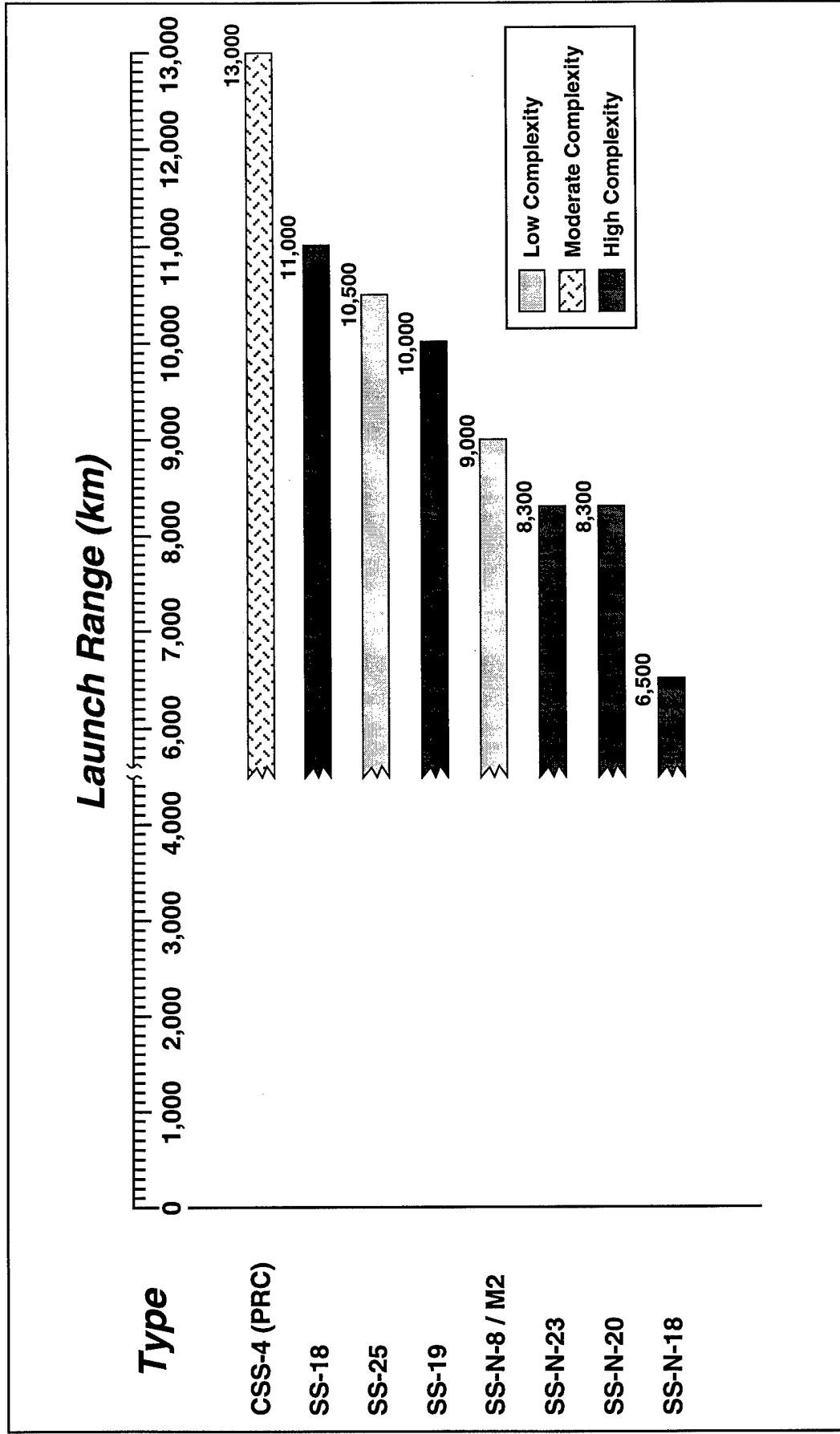


THEATER THREAT - REAL AND GROWING



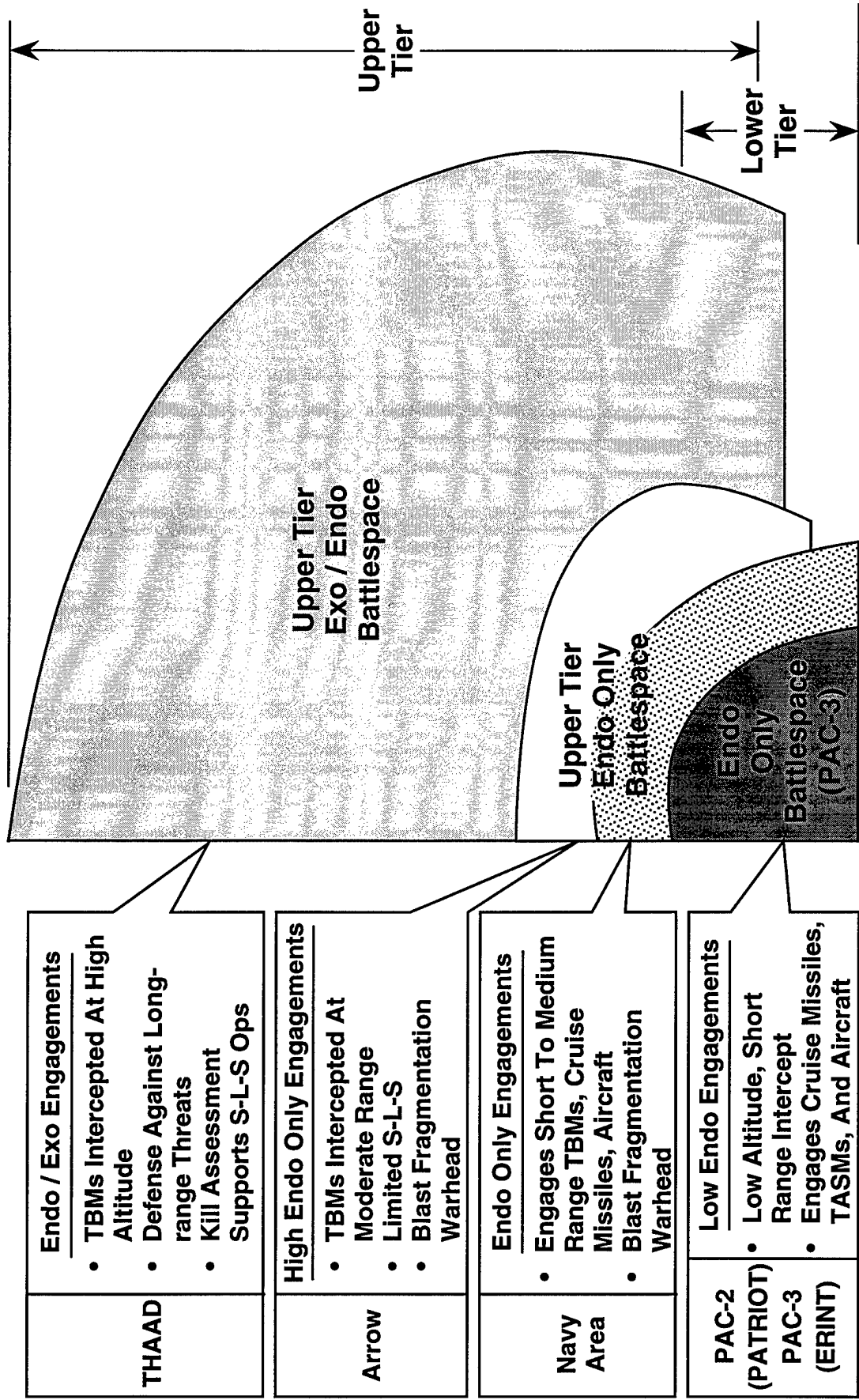


EXISTING AND POTENTIAL STRATEGIC THREATS (ST)



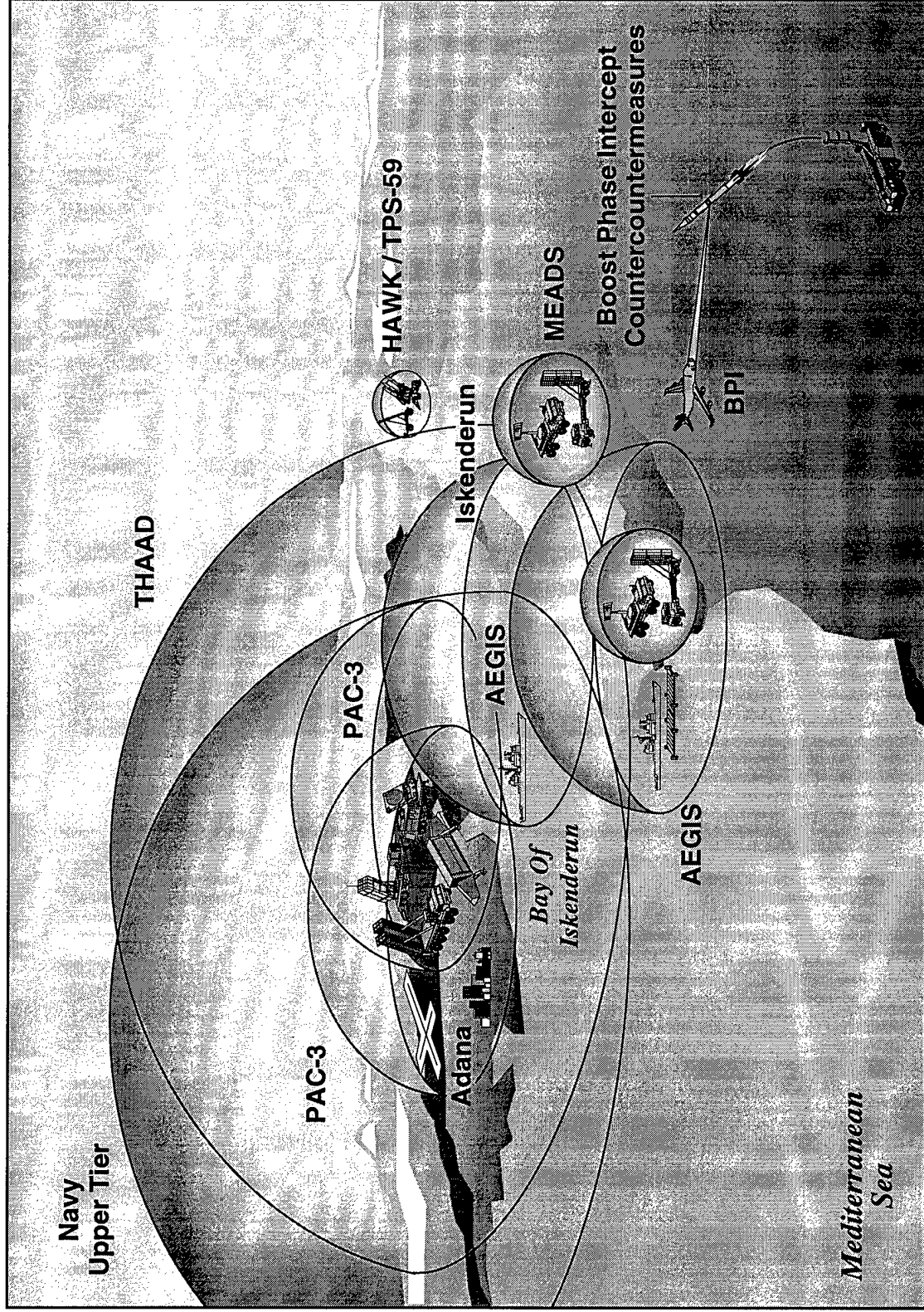


BATTLESPACE COMPARISON





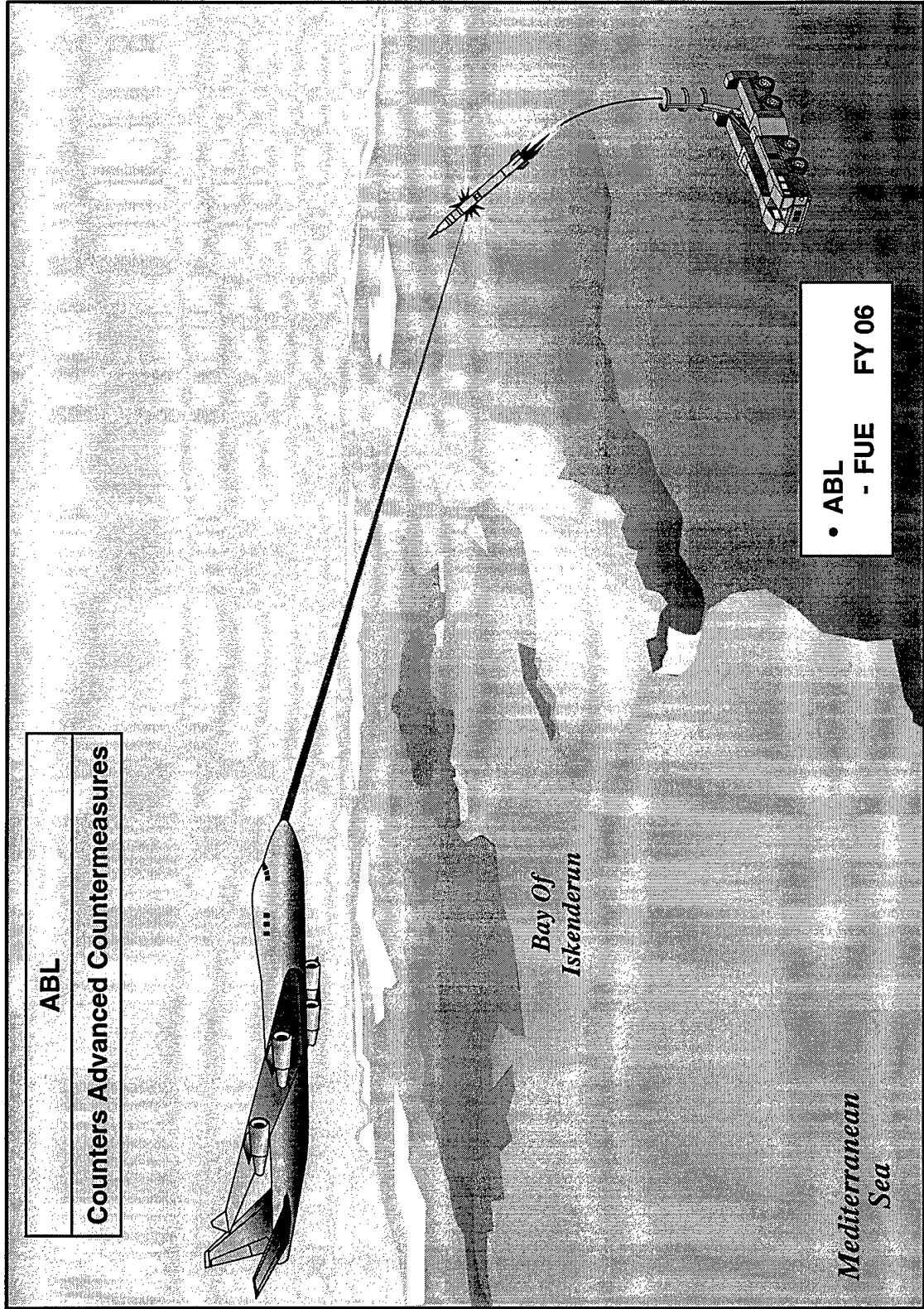
TACTICAL COVERAGE CAPABILITIES





BOOST PHASE INTERCEPT CAPABILITIES

ABL
Counters Advanced Countermeasures



*Mediterranean
Sea*

*Bay Of
Iskenderun*

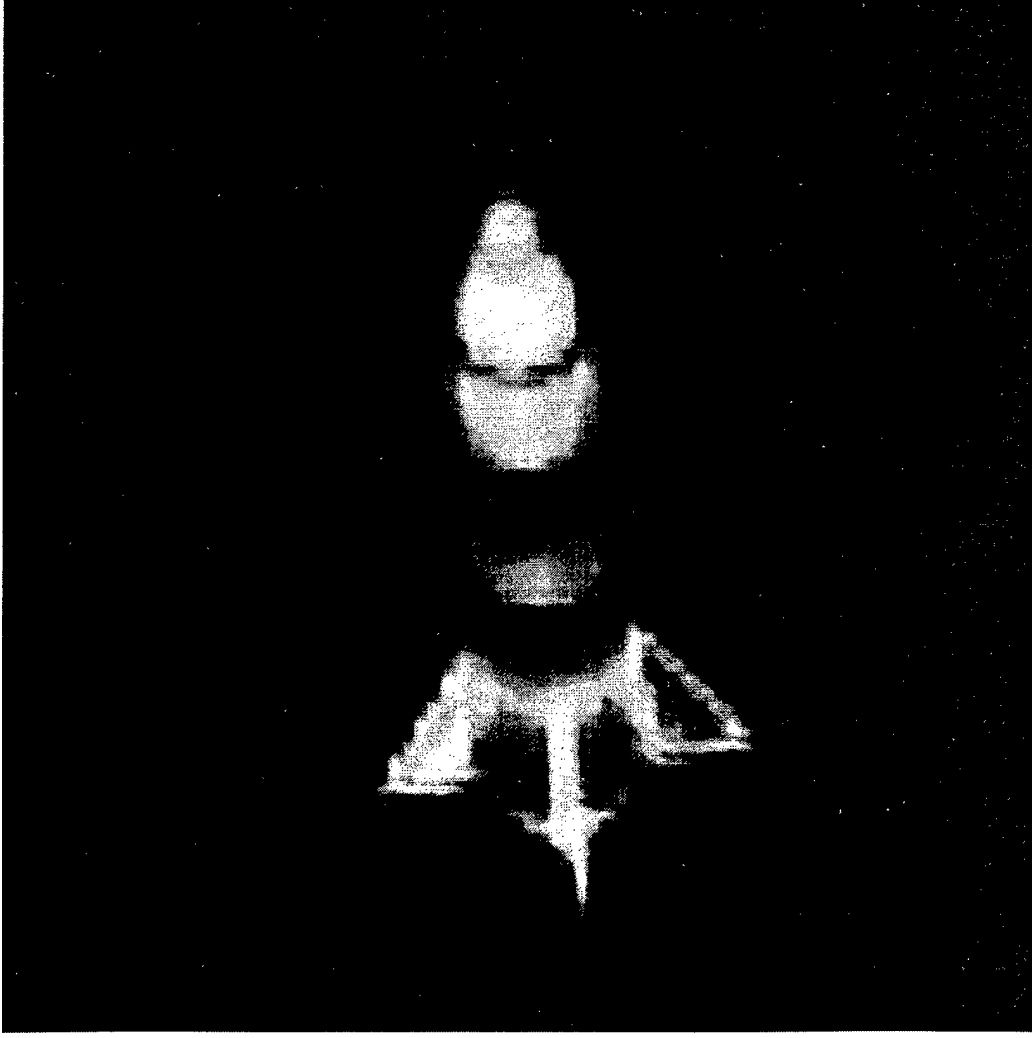
• ABL
- FUE
FY 06



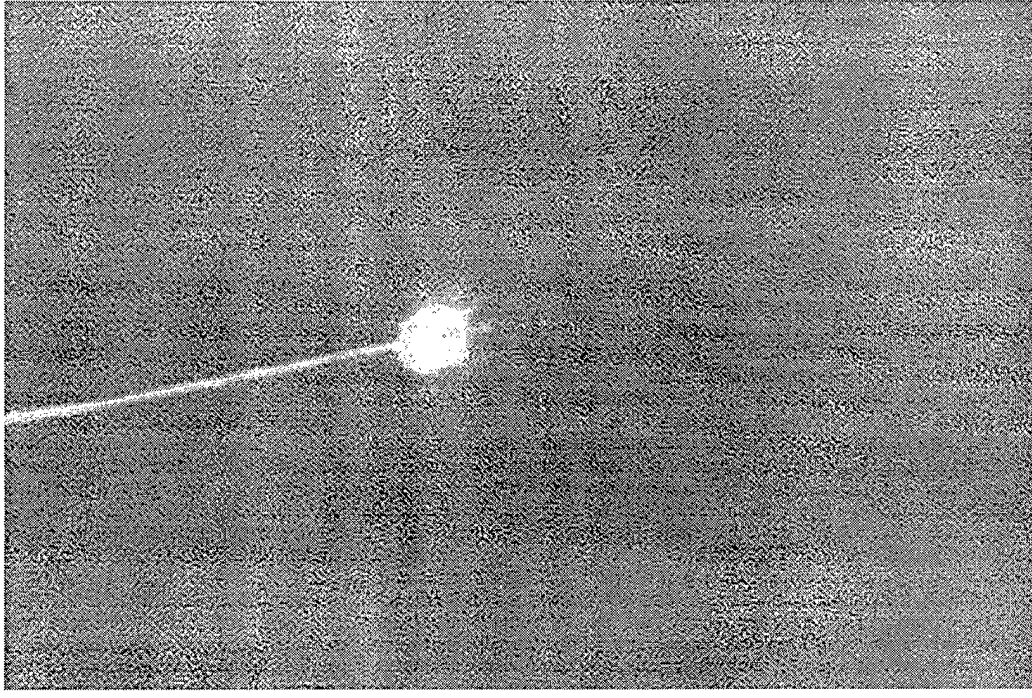


NAVY AREA DEFENSE INTERCEPT TEST

Last IR Image From Seeker



Intercept On 24 JAN 97





SBL READINESS DEMONSTRATOR

